

An Overview of Lane Departure Crashes

*North Carolina Executive Committee
for Highway Safety*

**Lane Departure Working Group
Initial Meeting**

April 12, 2004

Definition

Lane Departure Crashes include:

- Ran Off Road - Left
- Ran Off Road - Right
- Ran Off Road - Straight
- Overturn/Rollover
- Fixed Object
- Head On
- Sideswipe, Opposite Direction

Available Resources

AASHTO Strategic Highway Safety Plan:

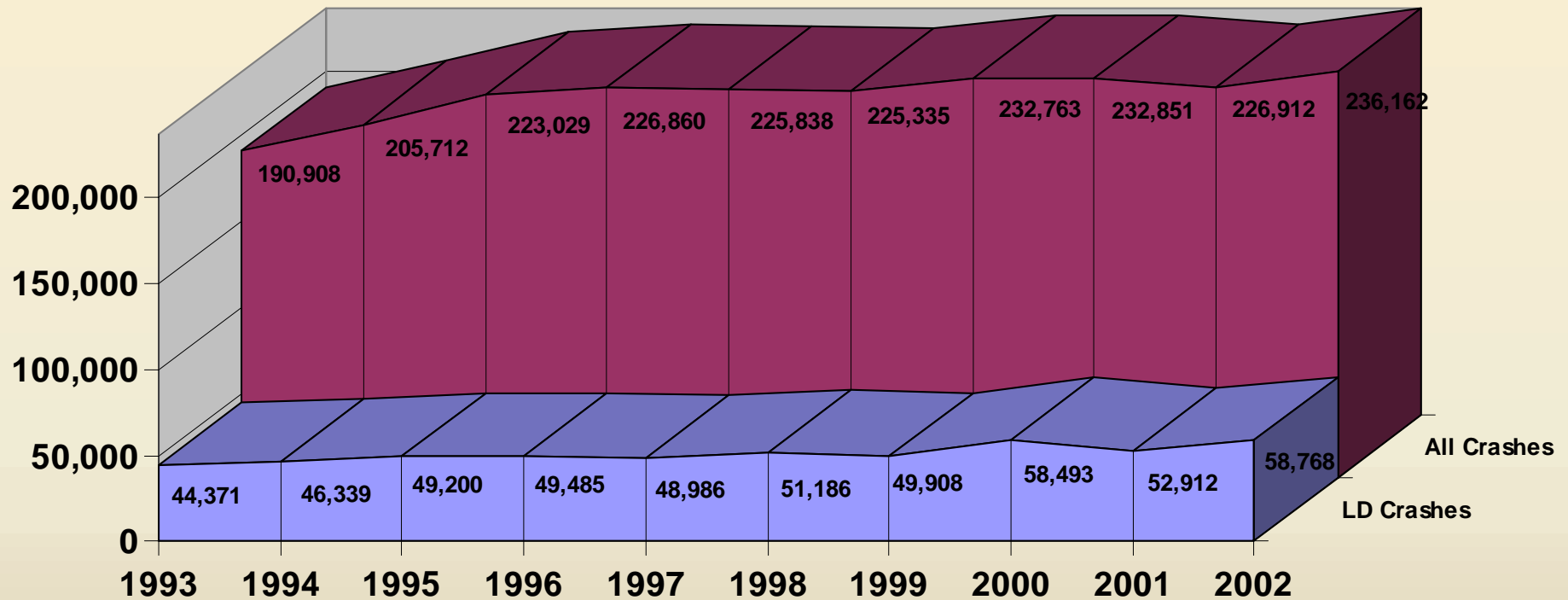
- Available online: <http://safety.transportation.org/intro.aspx>

NCHRP Reports: *Guidance for Implementation of the AASHTO Strategic Highway Safety Plan*

- *Volume 3: A Guide for Addressing Collisions with
Trees in Hazardous Locations*
- *Volume 4: A Guide for Addressing Head-On Collisions*
- *Volume 6: A Guide for Addressing Run-Off-Road
Collisions*

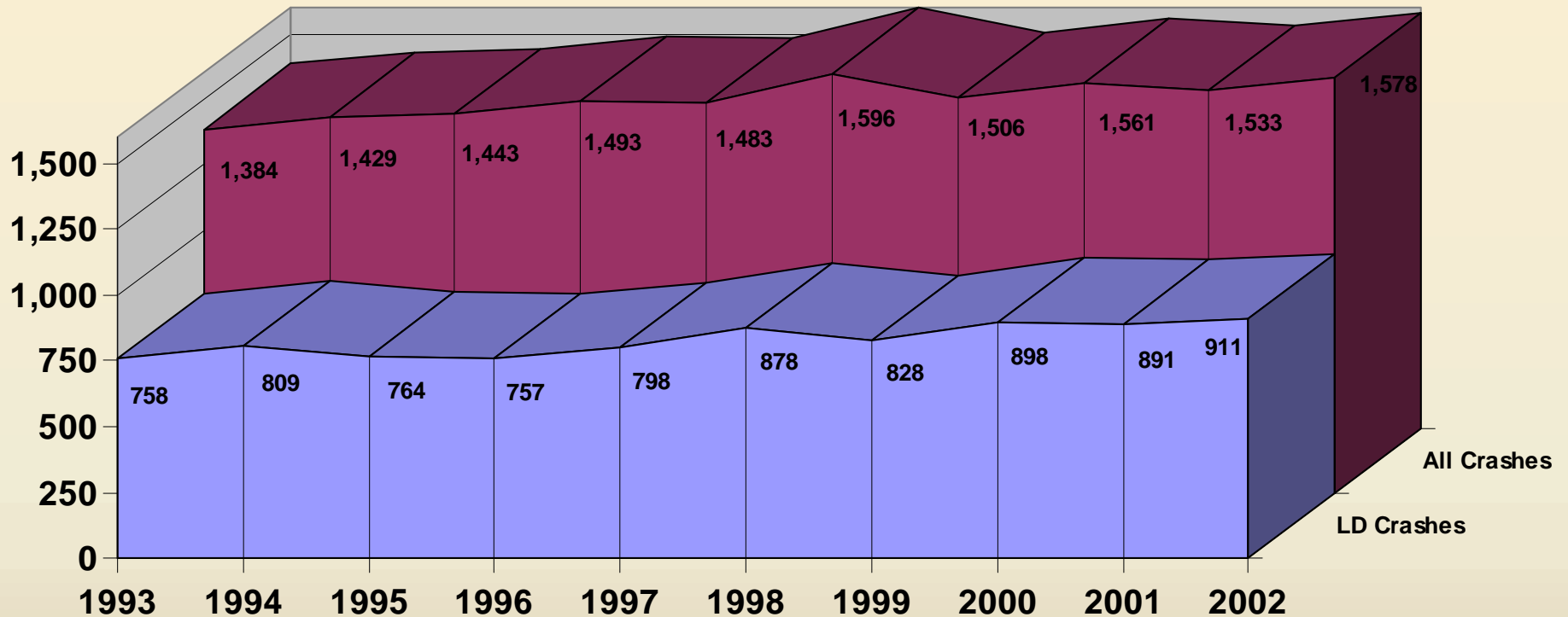
(Provided to you in Adobe .pdf on the CD-Roms)

Total Crashes by Category



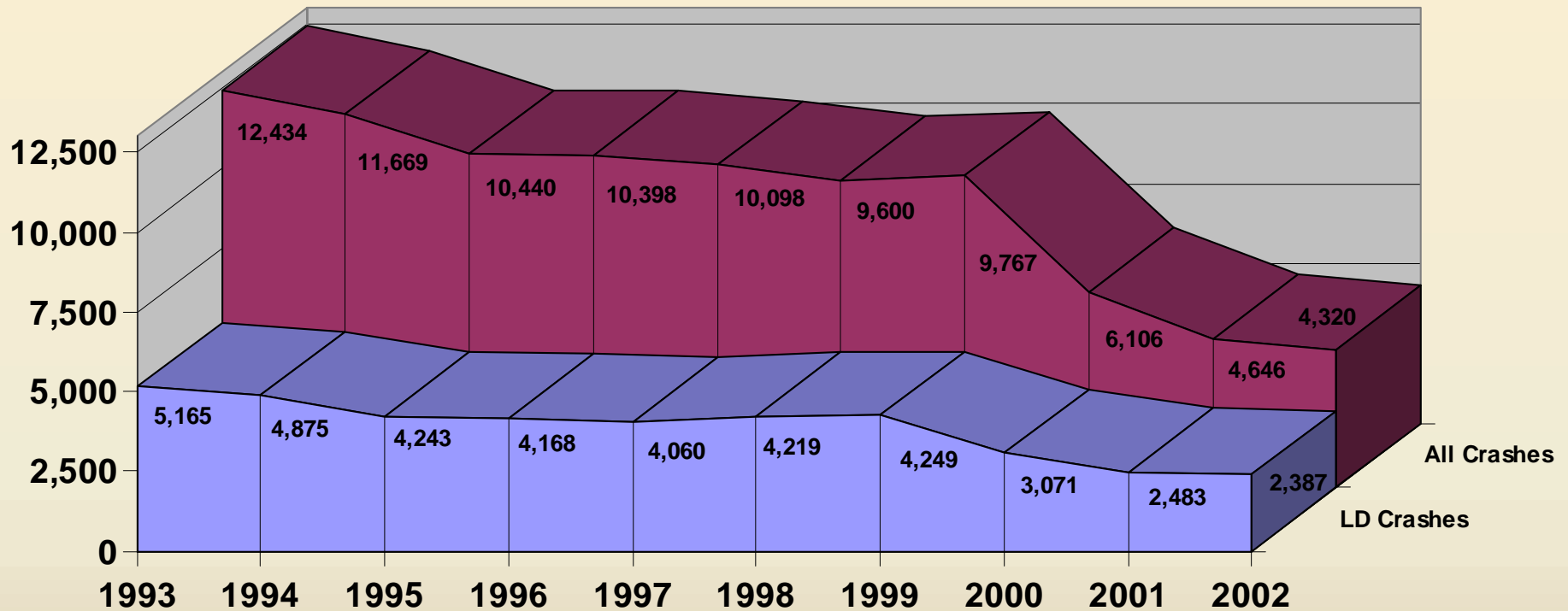
On Average, Lane Departure Crashes are 23% of All Crashes

Fatalities by Category



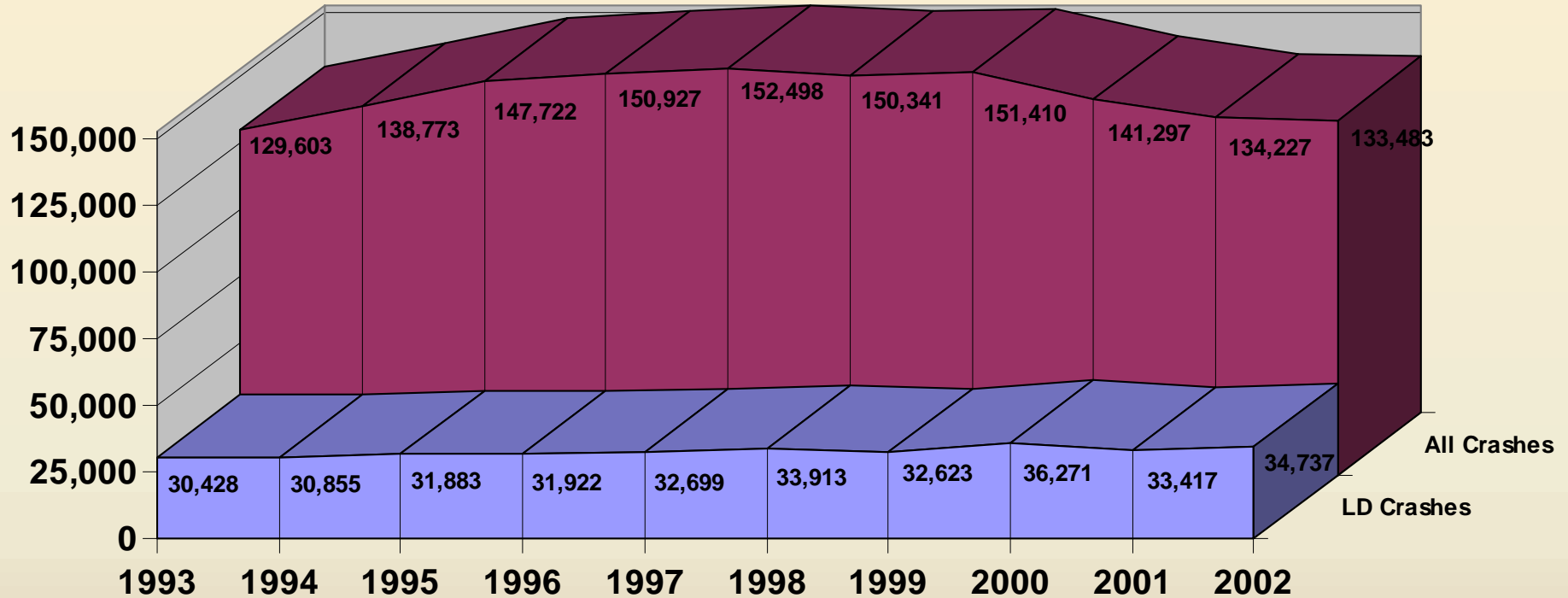
On Average, Lane Departure Fatalities are 55% of All Fatalities

Class A Injuries by Category



On Average, Lane Departure A Injuries are 45% of All A Injuries

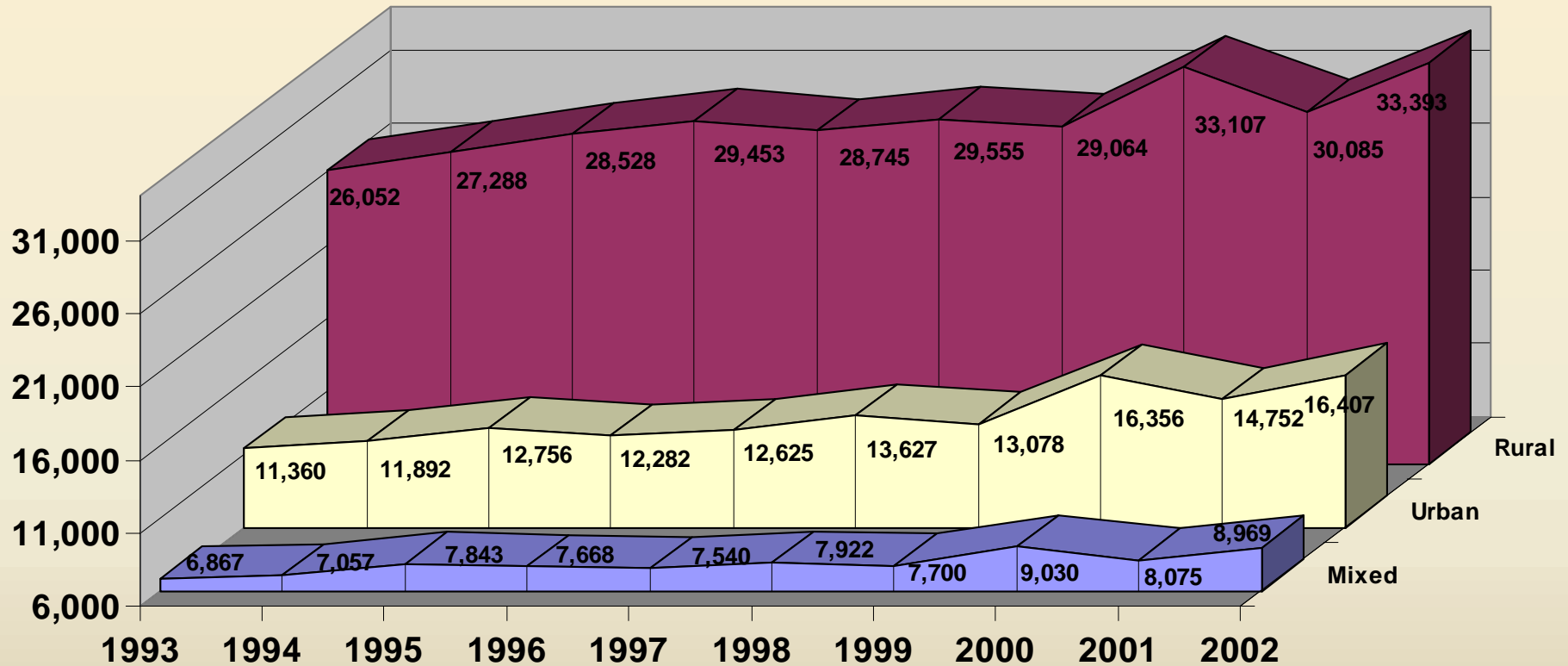
All Injuries by Category



On Average, Lane Departure Injuries are 23% of All Injuries

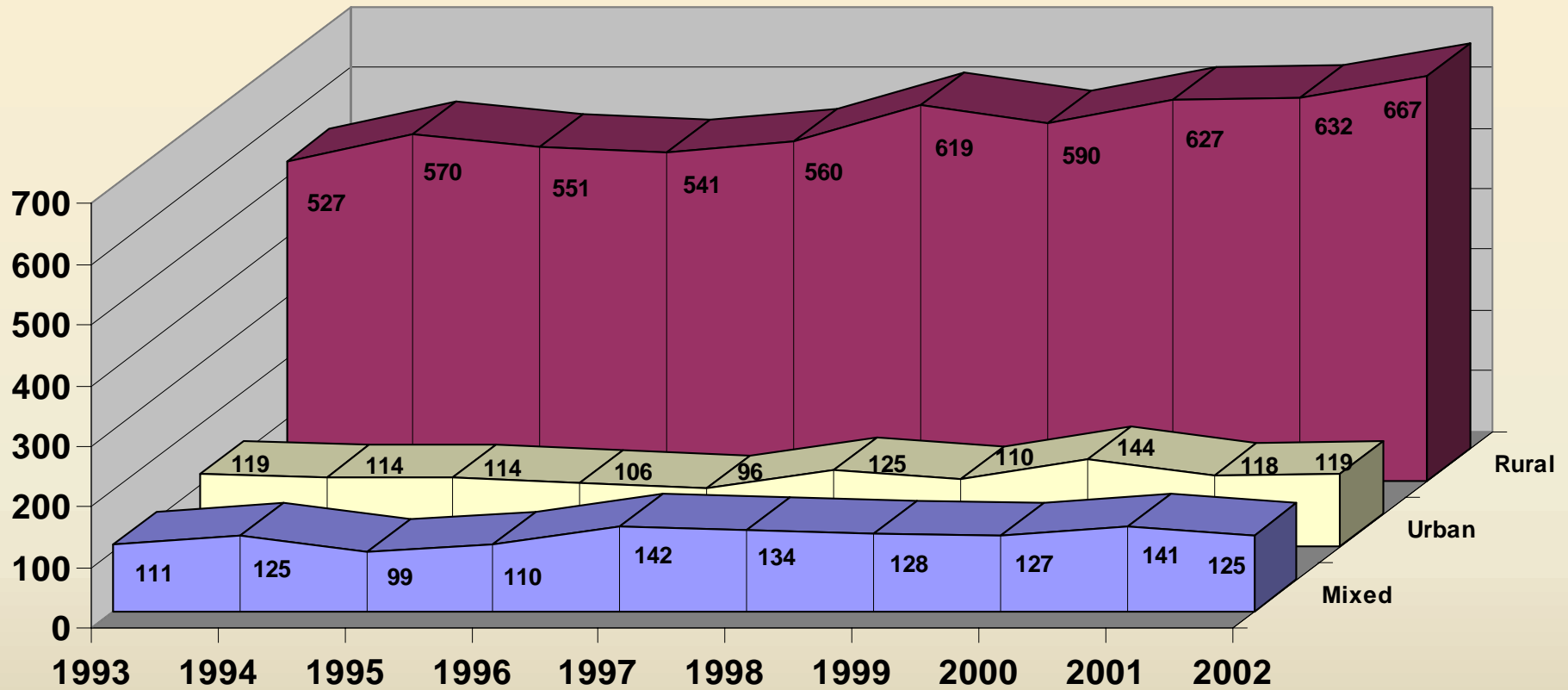
Lane Departure Crashes by Locality

(All Crashes)



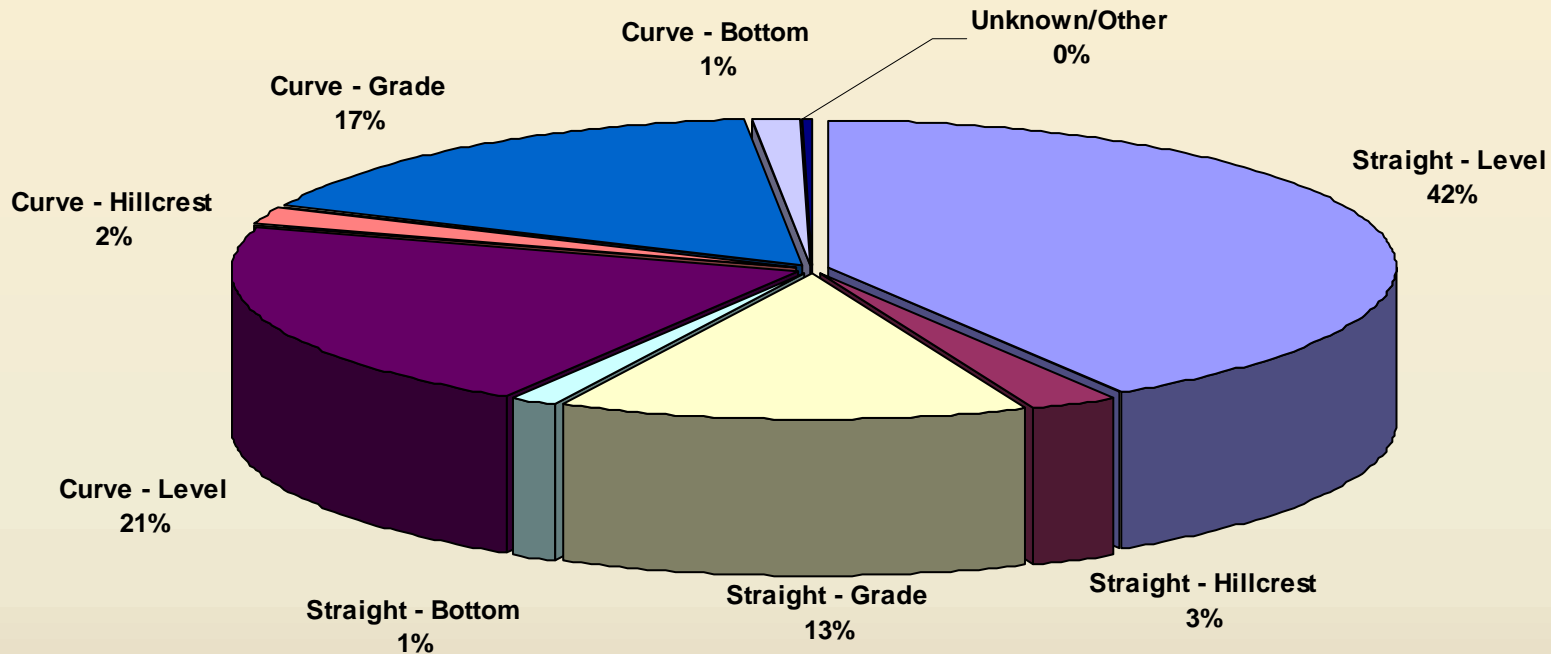
Lane Departure Crashes by Locality

(Fatal Crashes)



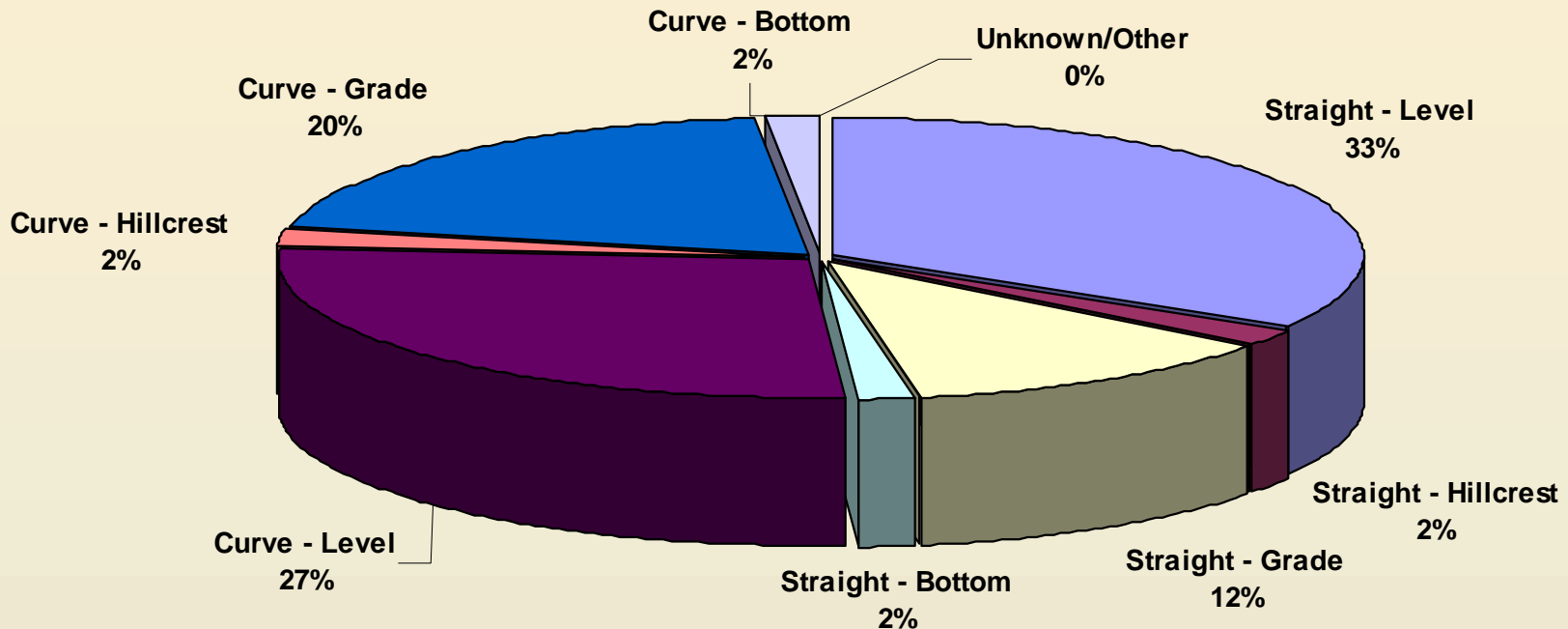
Lane Departure Crashes

(All Crashes)



Road Characteristics
(10 Year Average; 1993-2002)

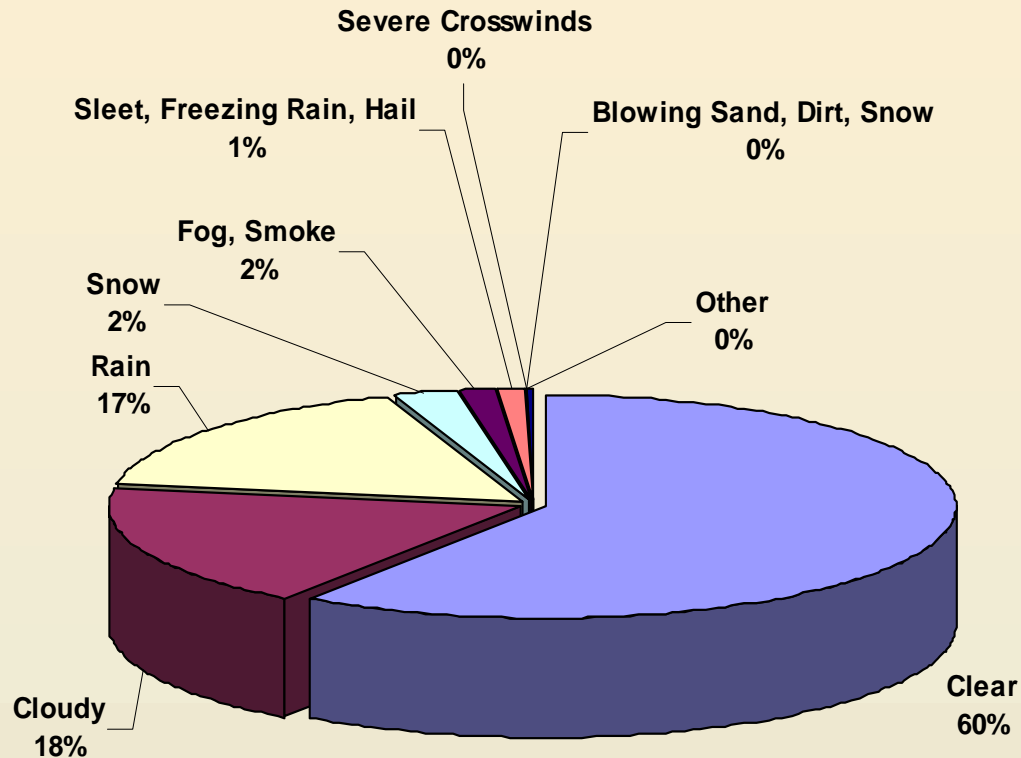
Lane Departure Crashes (Fatal Crashes)



Road Characteristics
(10 Year Average; 1993-2002)

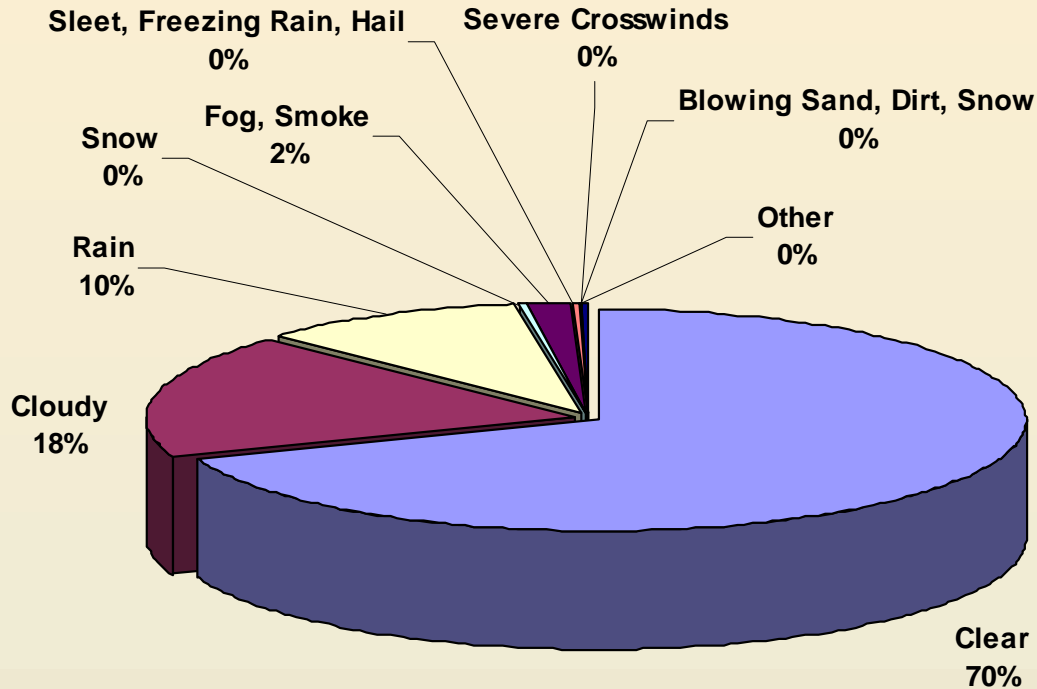
Lane Departure Crashes

(All Crashes)



Weather Conditions
(10 Year Average; 1993-2002)

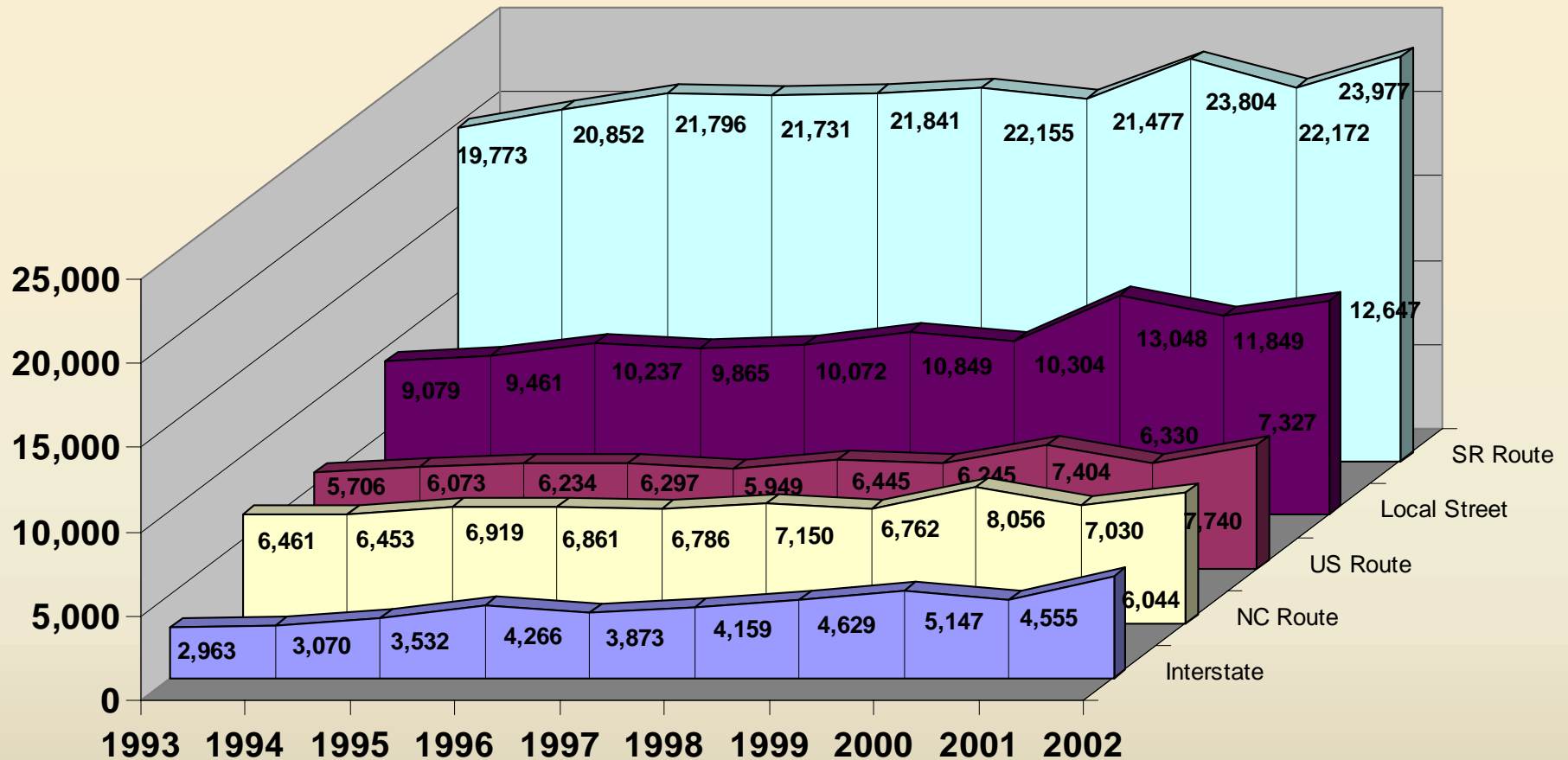
Lane Departure Crashes (Fatal Crashes)



Weather Conditions
(10 Year Average; 1993-2002)

Lane Departure Crashes by Facility

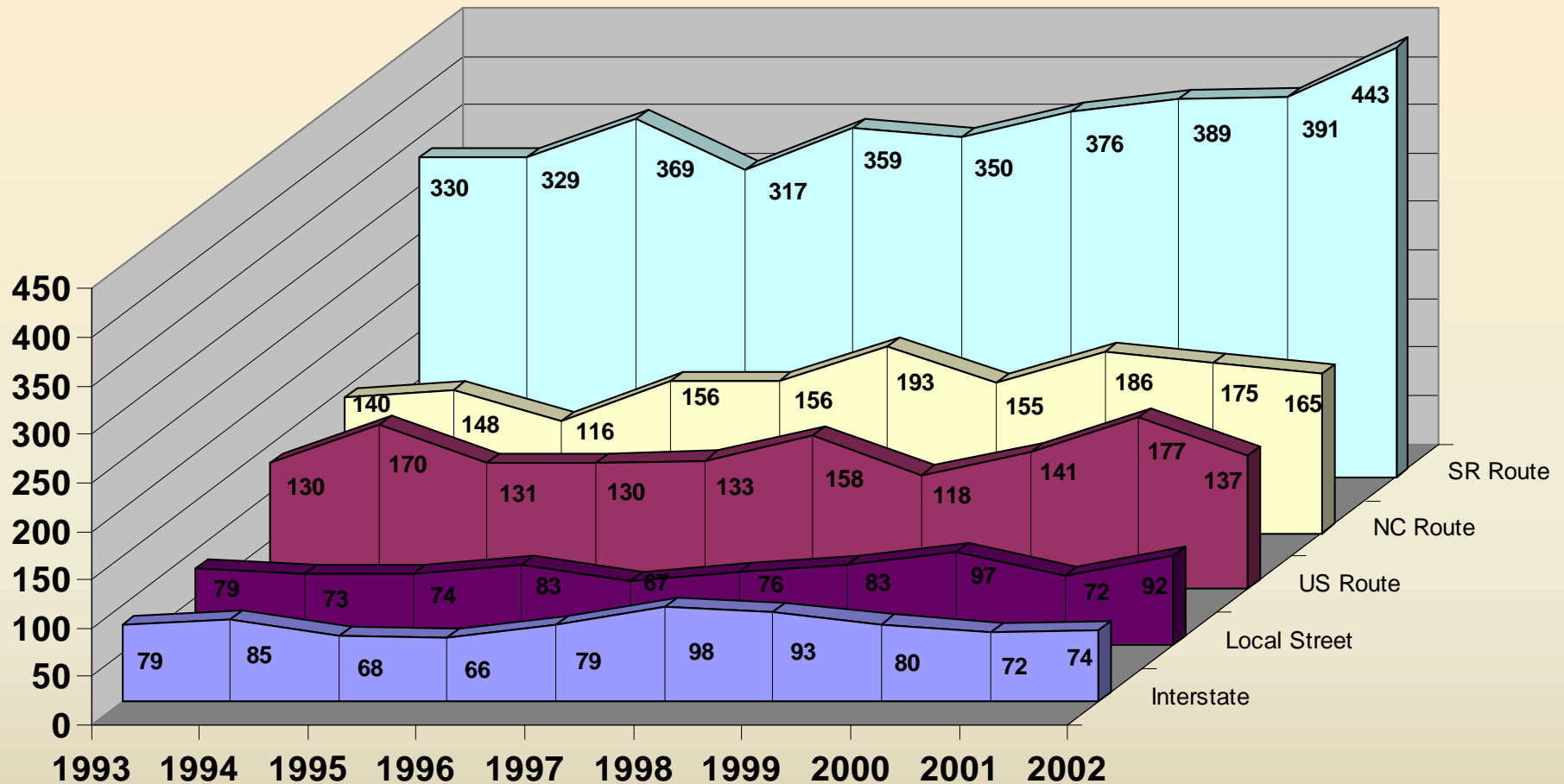
(All Crashes)



***Note: Crashes listed as occurring on “Other”, “Private” or “PVA” roads are not shown**

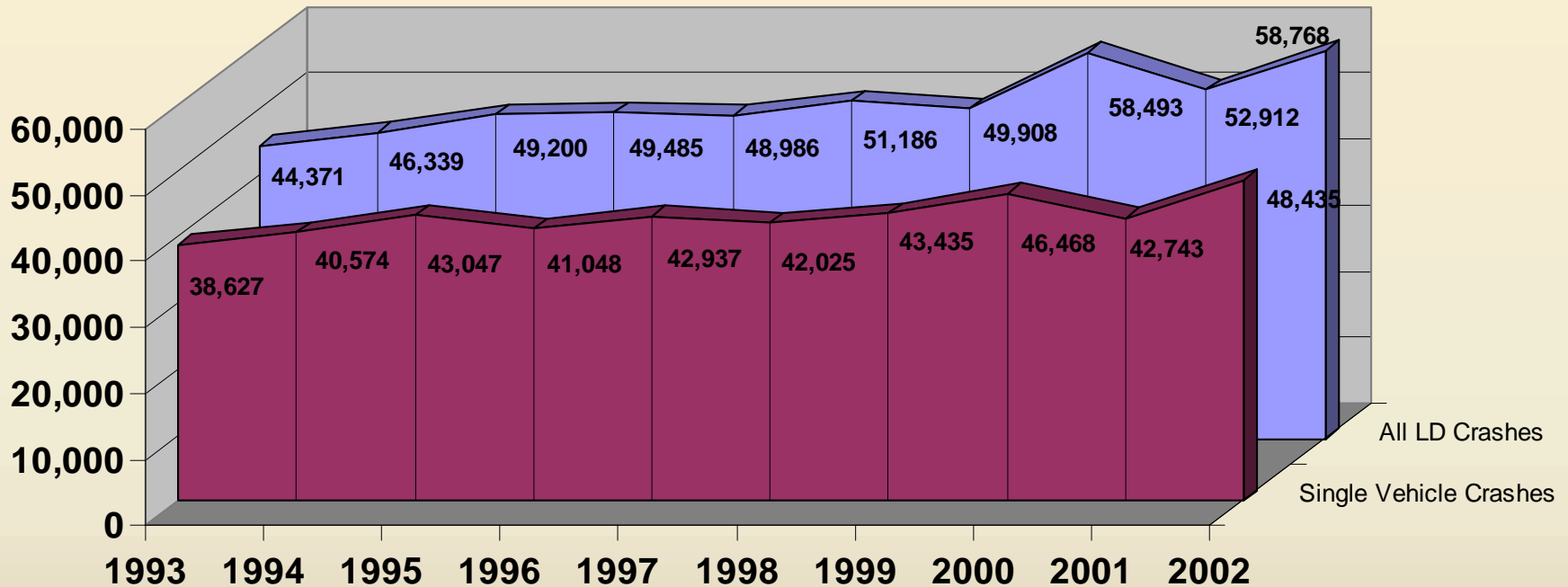
Lane Departure Crashes by Facility

(Fatal Crashes)



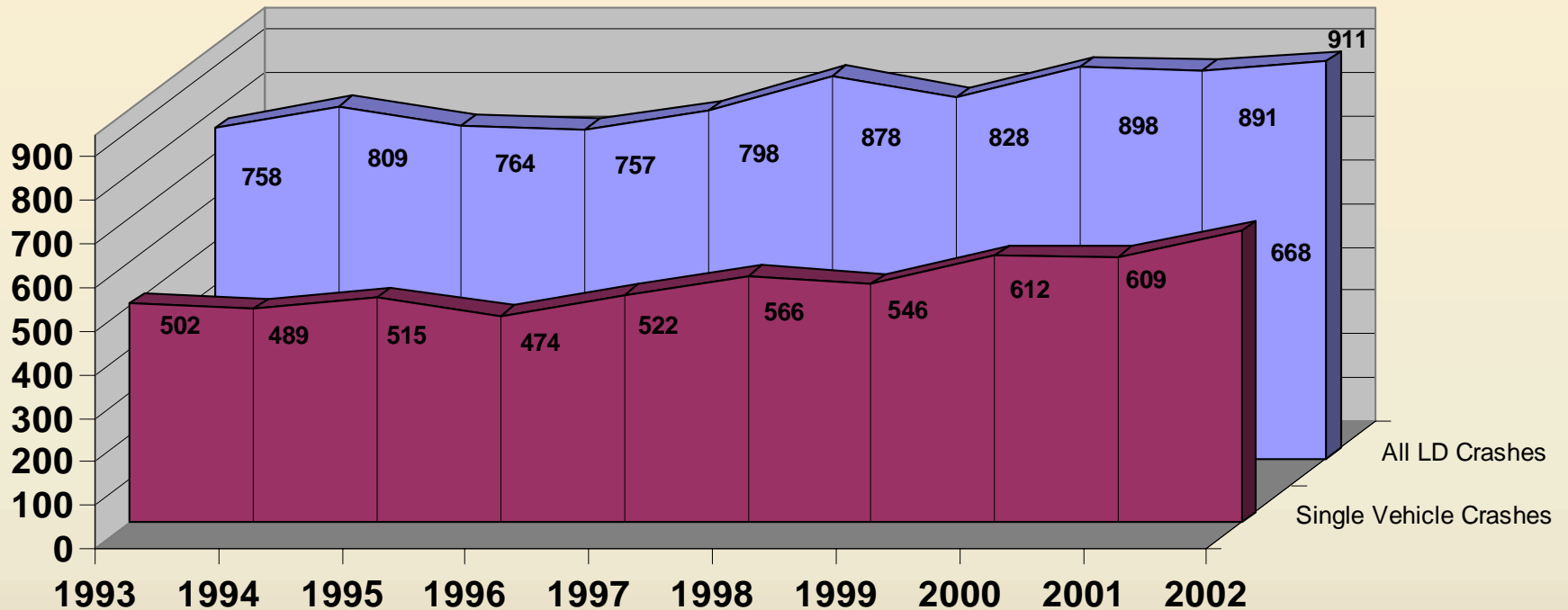
***Note: Crashes listed as occurring on “Other”, “Private” or “PVA” roads are not shown**

Single Vehicle Lane Departure Crashes (All Crashes)



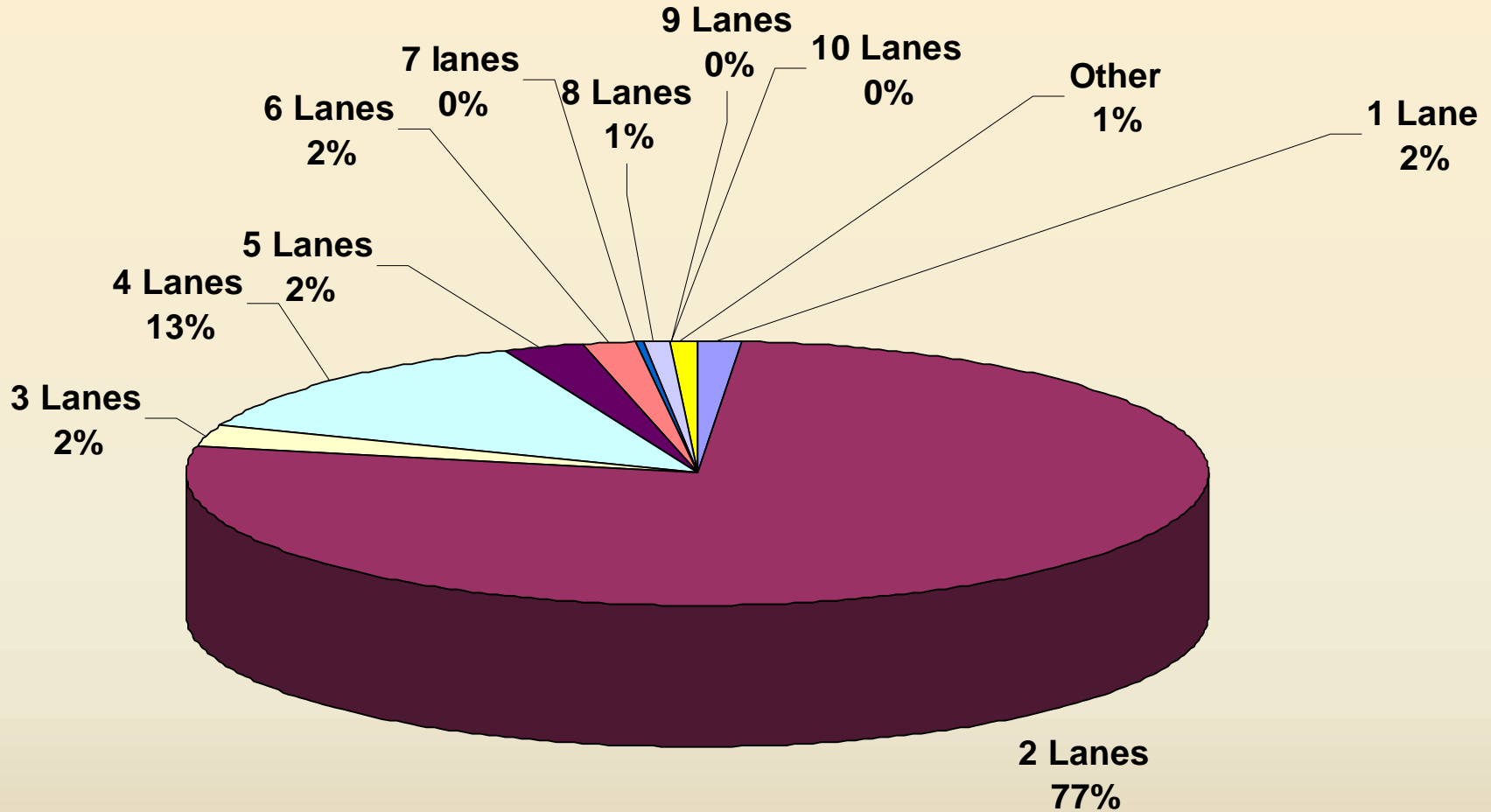
**On Average, Single Vehicle Lane Departure Crashes Account for
85% of All Lane Departure Crashes**

Single Vehicle Lane Departure Crashes (Fatal Crashes)



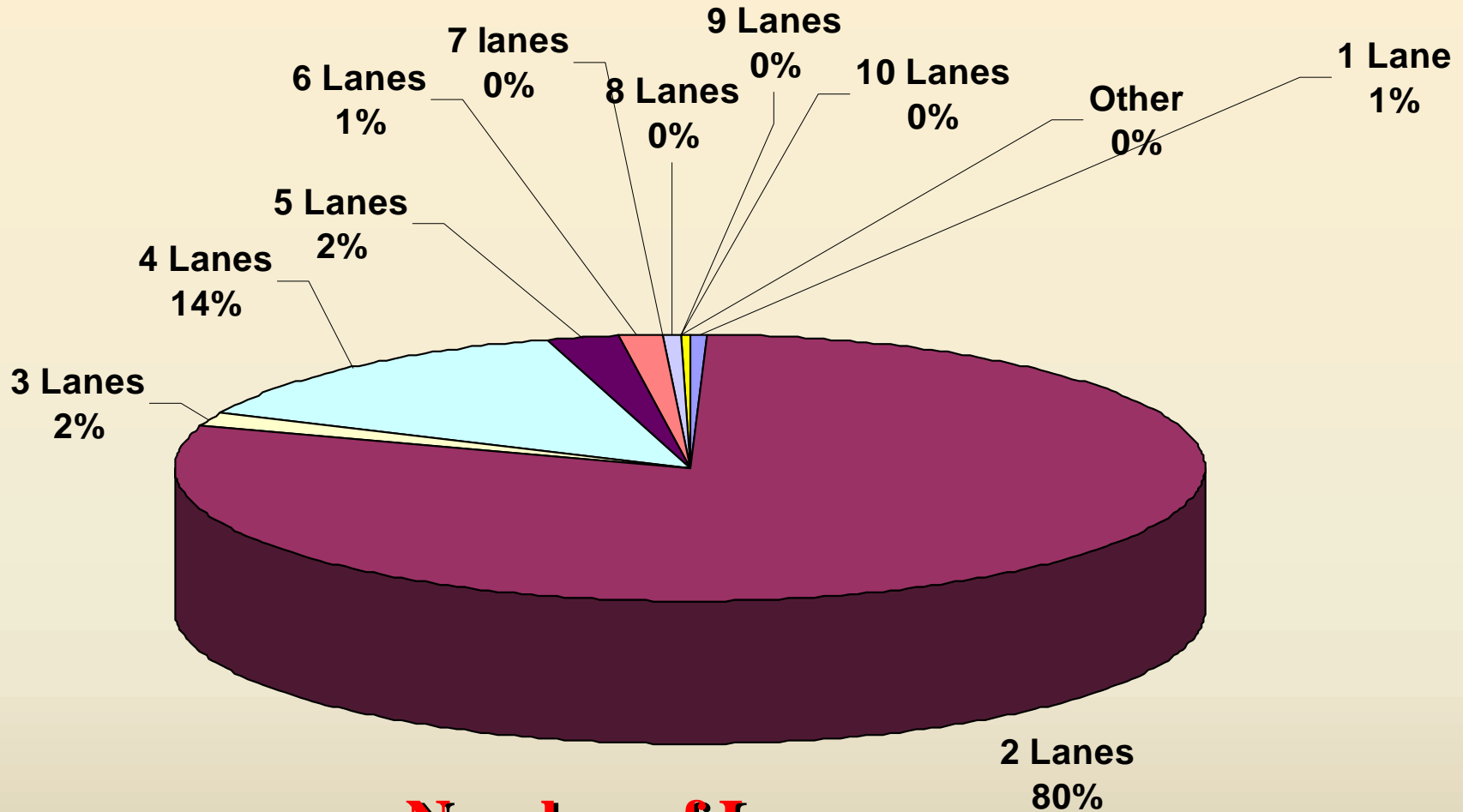
On Average, Single Vehicle Lane Departure Fatalities Account for 66% of All Lane Departure Fatalities

Lane Departure Crashes (All Crashes)



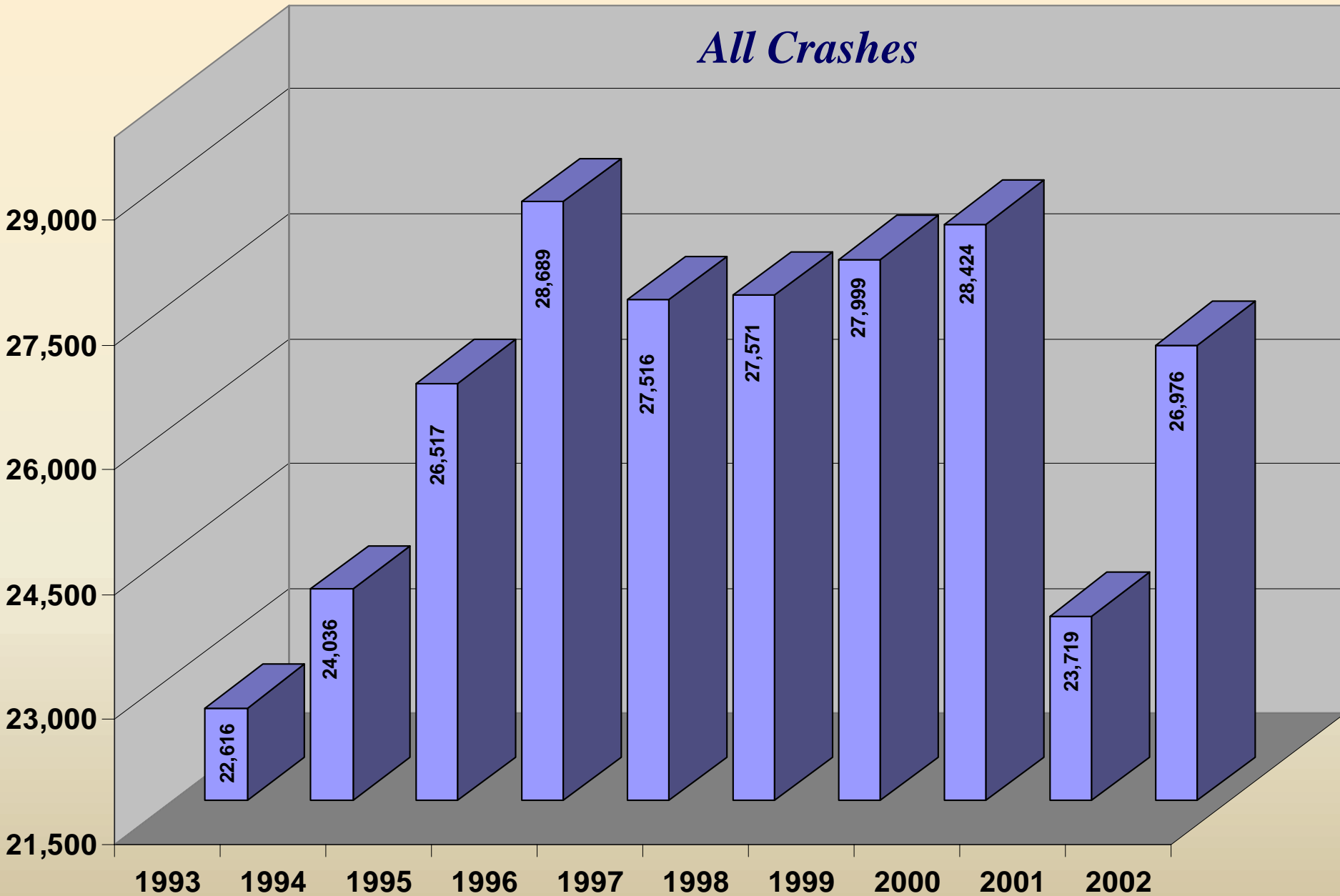
Number of Lanes
(10 Year Average; 1993-2002)

Lane Departure Crashes (Fatal Crashes)

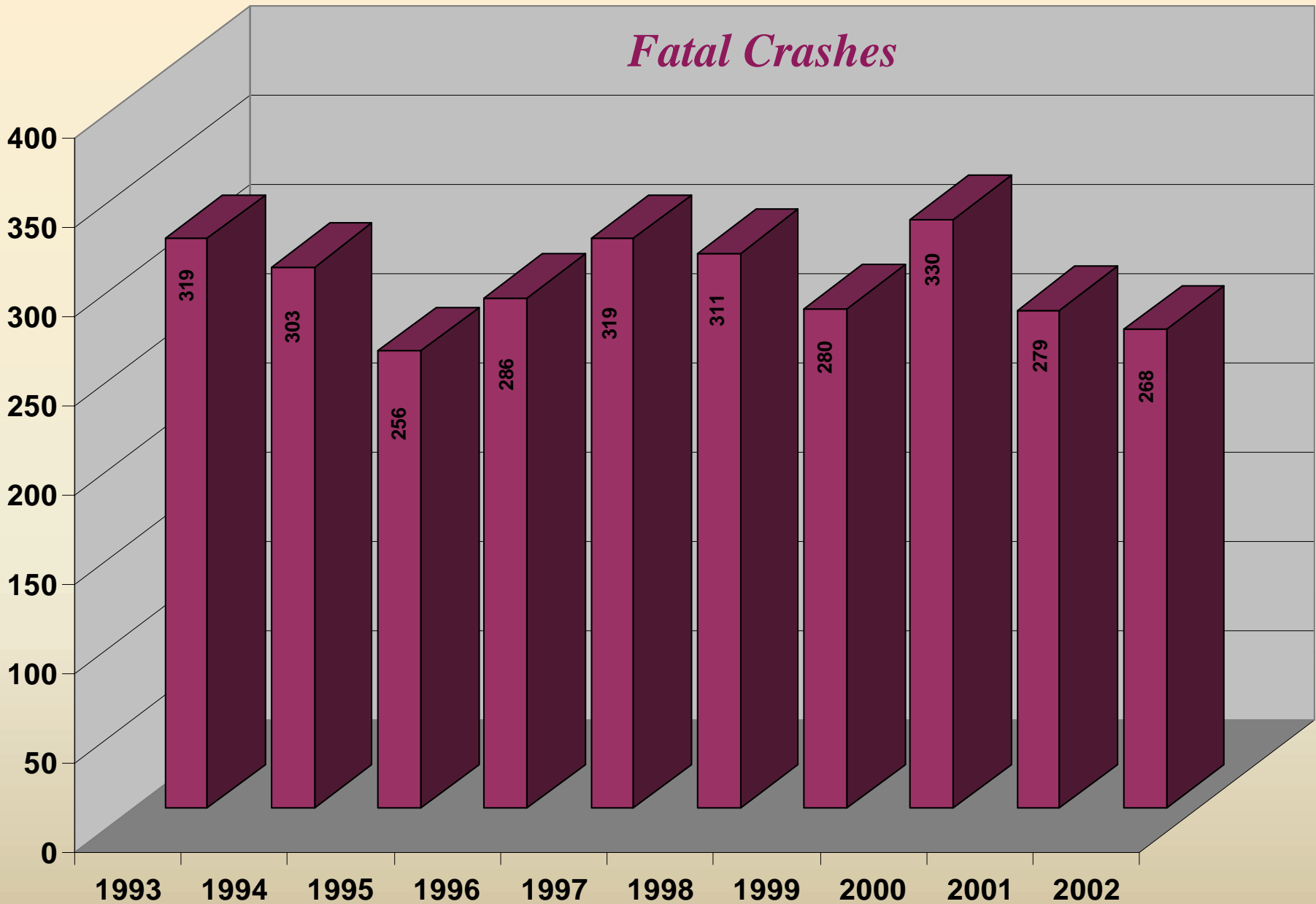


Number of Lanes
(10 Year Average; 1993-2002)

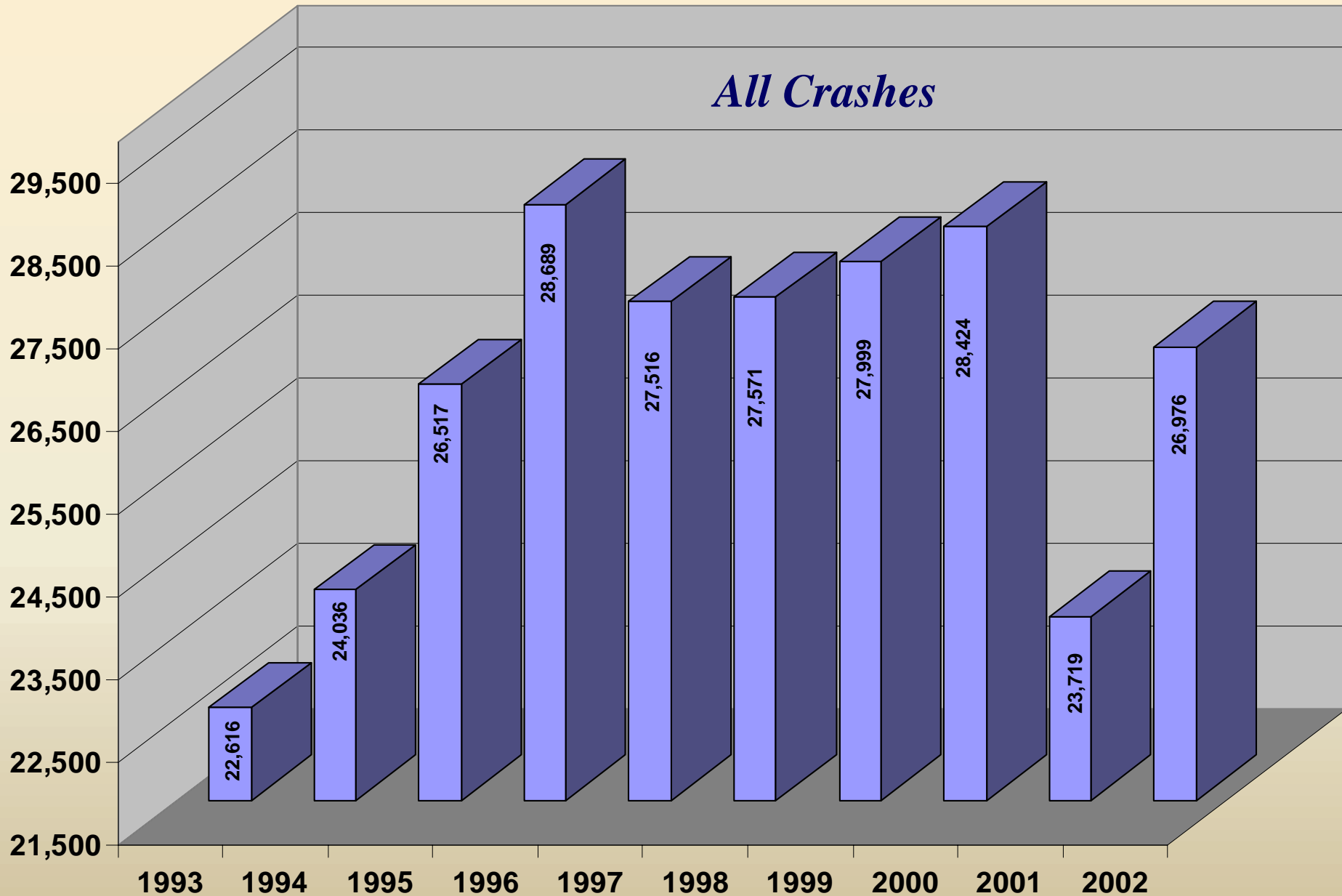
Lane Departure Crashes by Alcohol Use



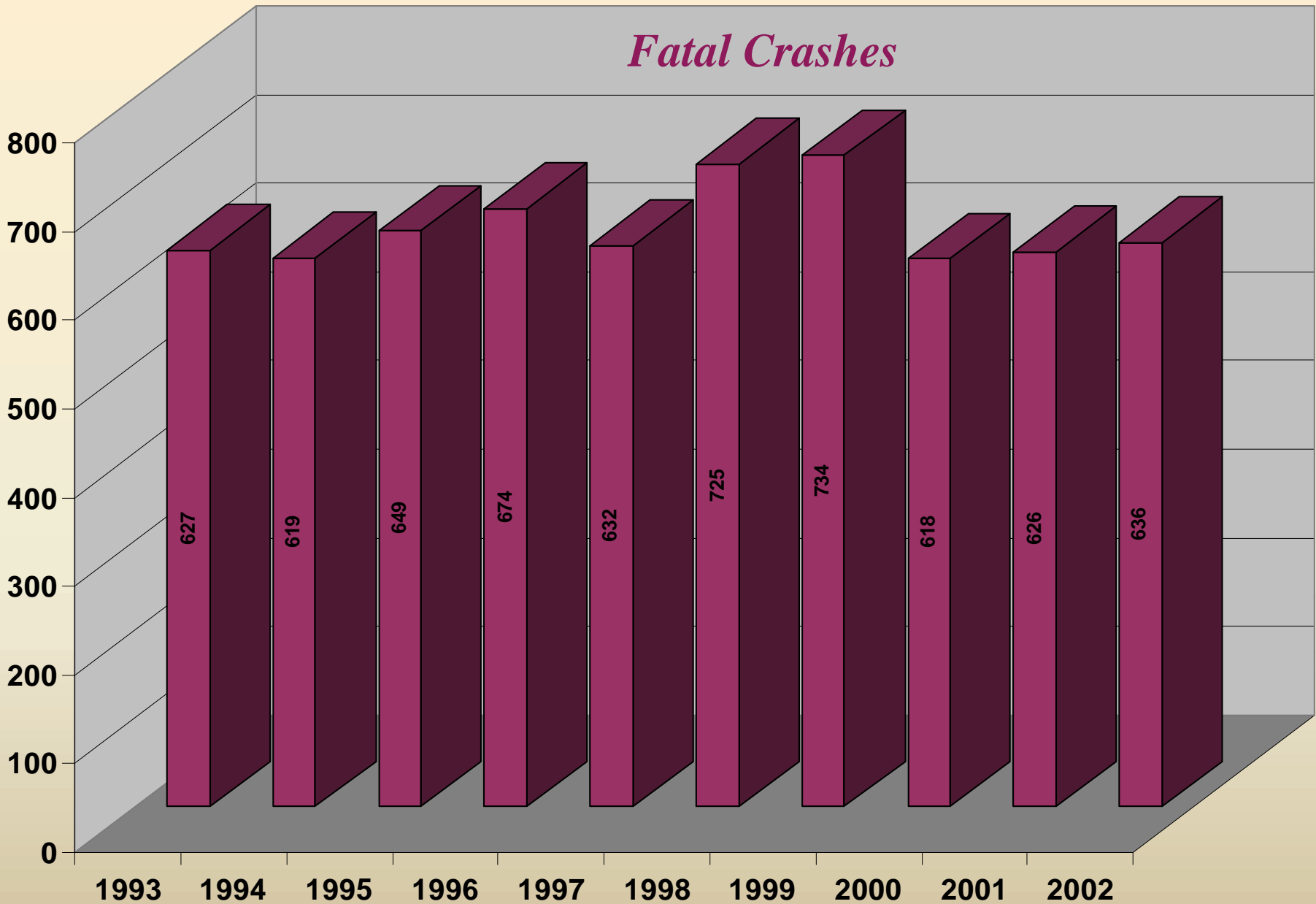
Lane Departure Crashes by Alcohol Use



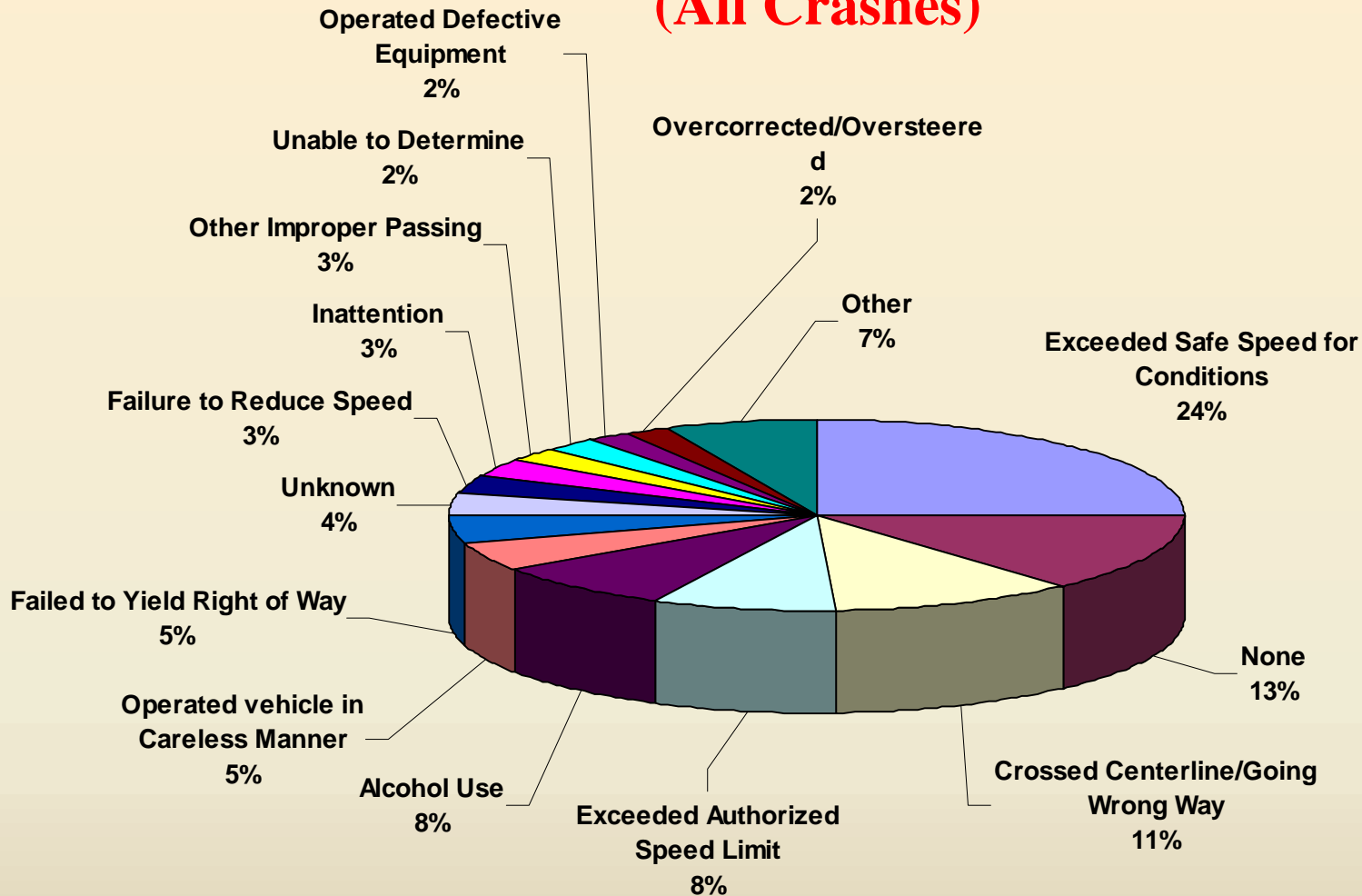
Lane Departure Crashes Involving Speeding



Lane Departure Crashes Involving Speeding

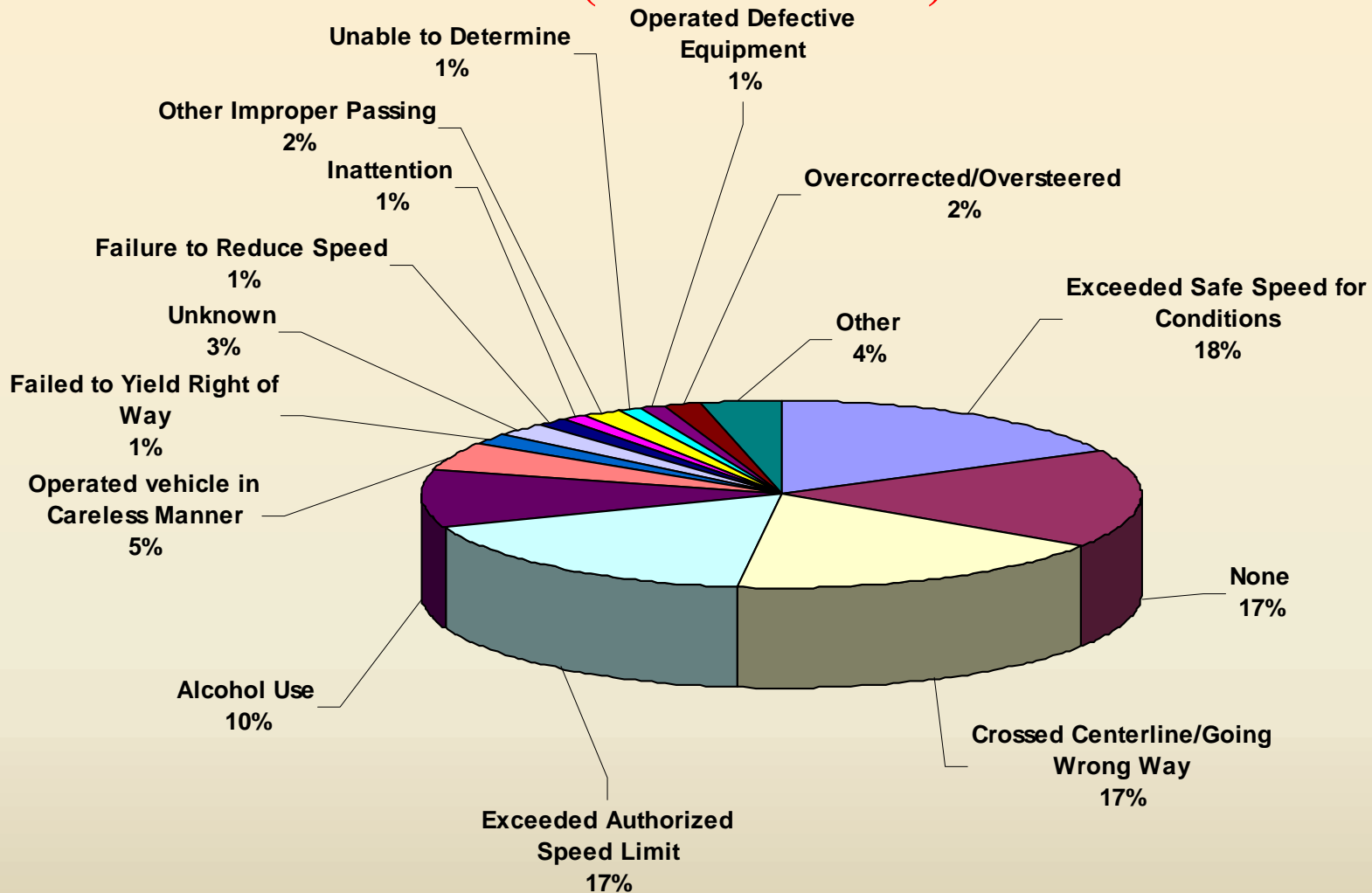


Lane Departure Crashes (All Crashes)



Contributing Circumstances
(10 Year Average; 1993-2002)

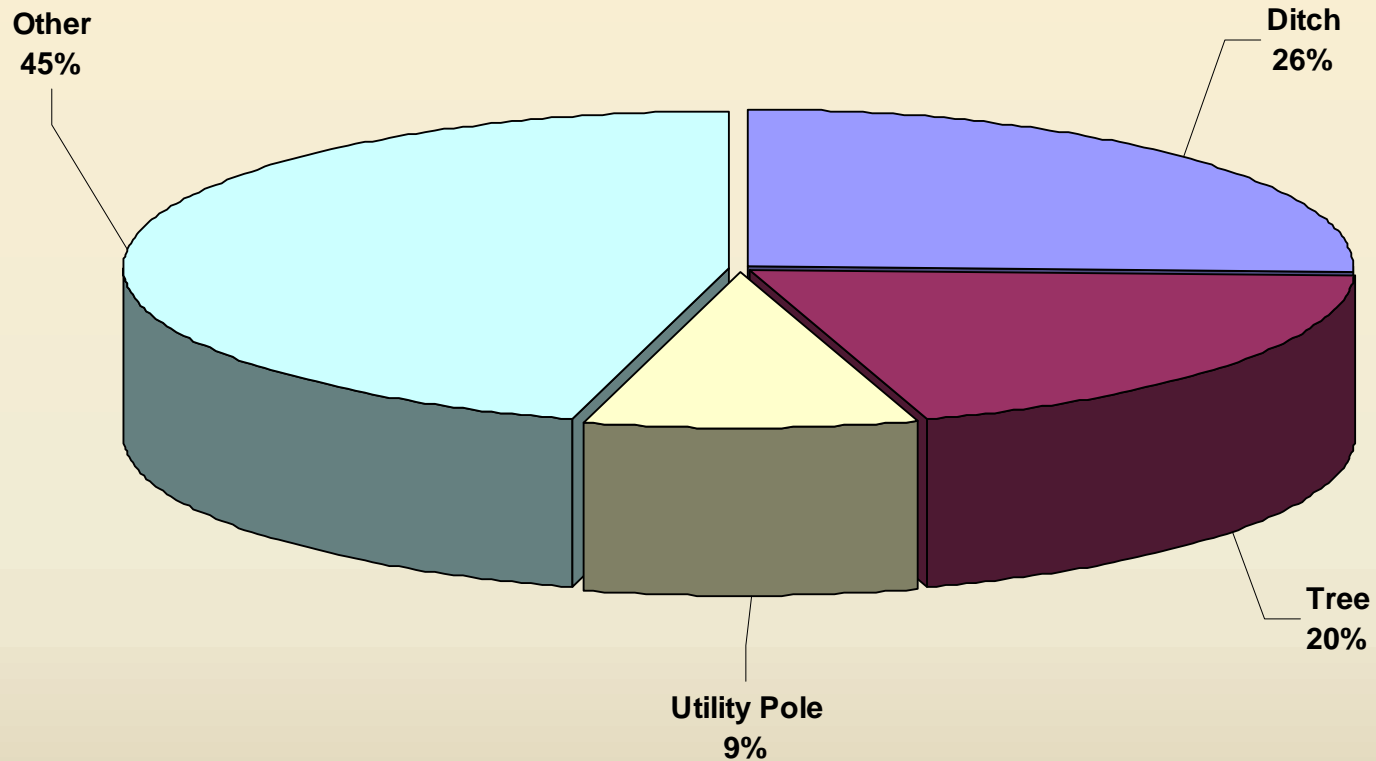
Lane Departure Crashes (Fatal Crashes)



Contributing Circumstances
(10 Year Average; 1993-2002)

Lane Departure Crashes

(All Crashes)

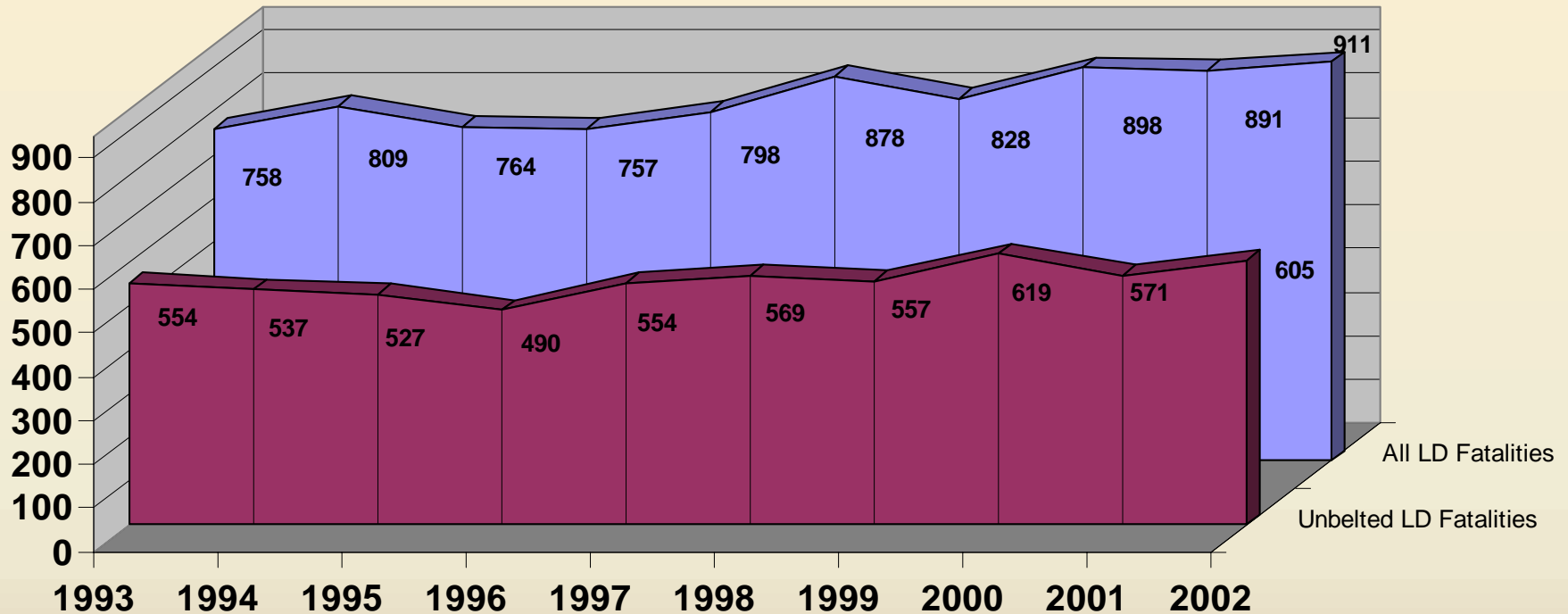


Object Struck
(10 Year Average; 1993-2002)

*Note: “Other” Category comprised of numerous items, each in small quantities

Lane Departure Crashes

(Fatal Crashes)



**On Average, Unbelted Occupants Account for
68% of All Lane Departure Fatalities**

Lane Departure Crashes

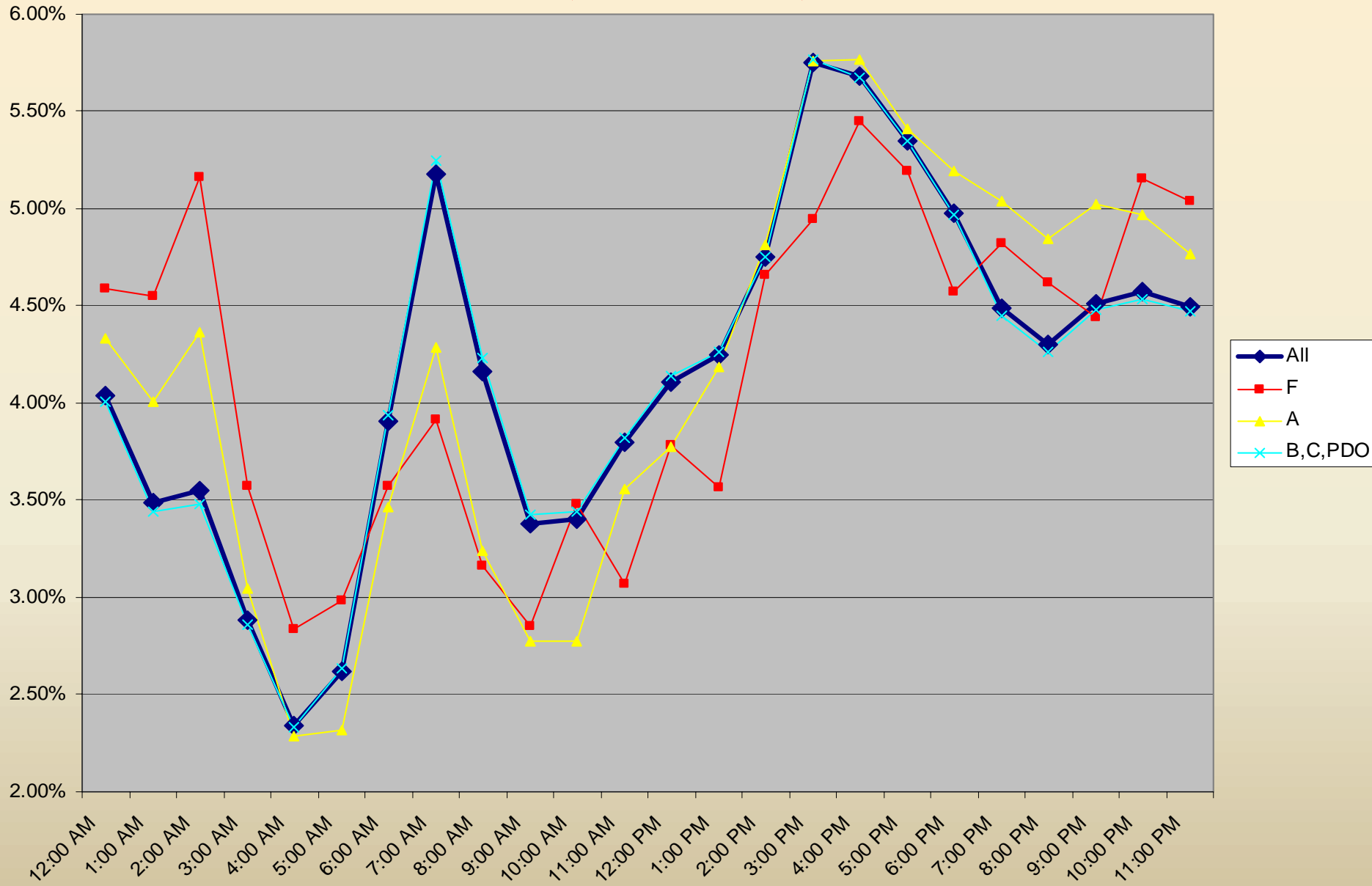
Additional Data

**Lane Departure Working Group
Second Meeting**

June 16, 2004

Lane Departure Crashes

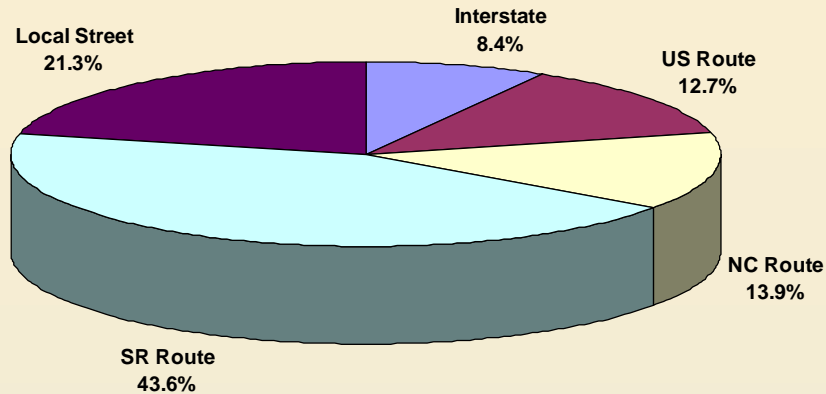
(1993 - 2002)



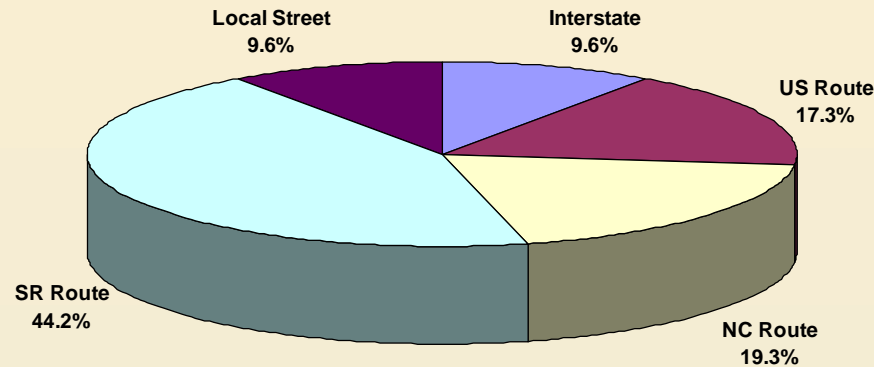
Lane Departure Crashes

By Facility Classification

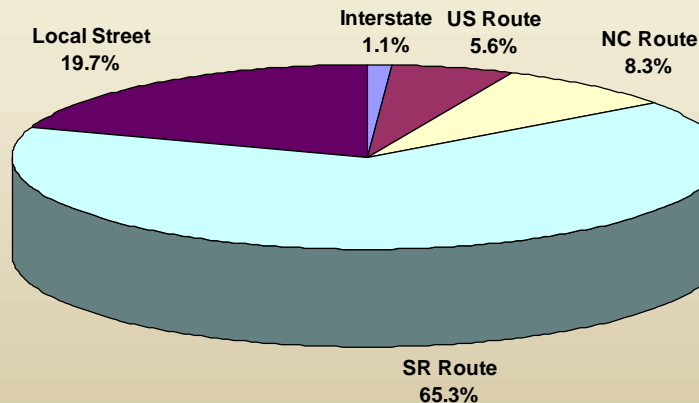
(1993-2002)



All Crashes



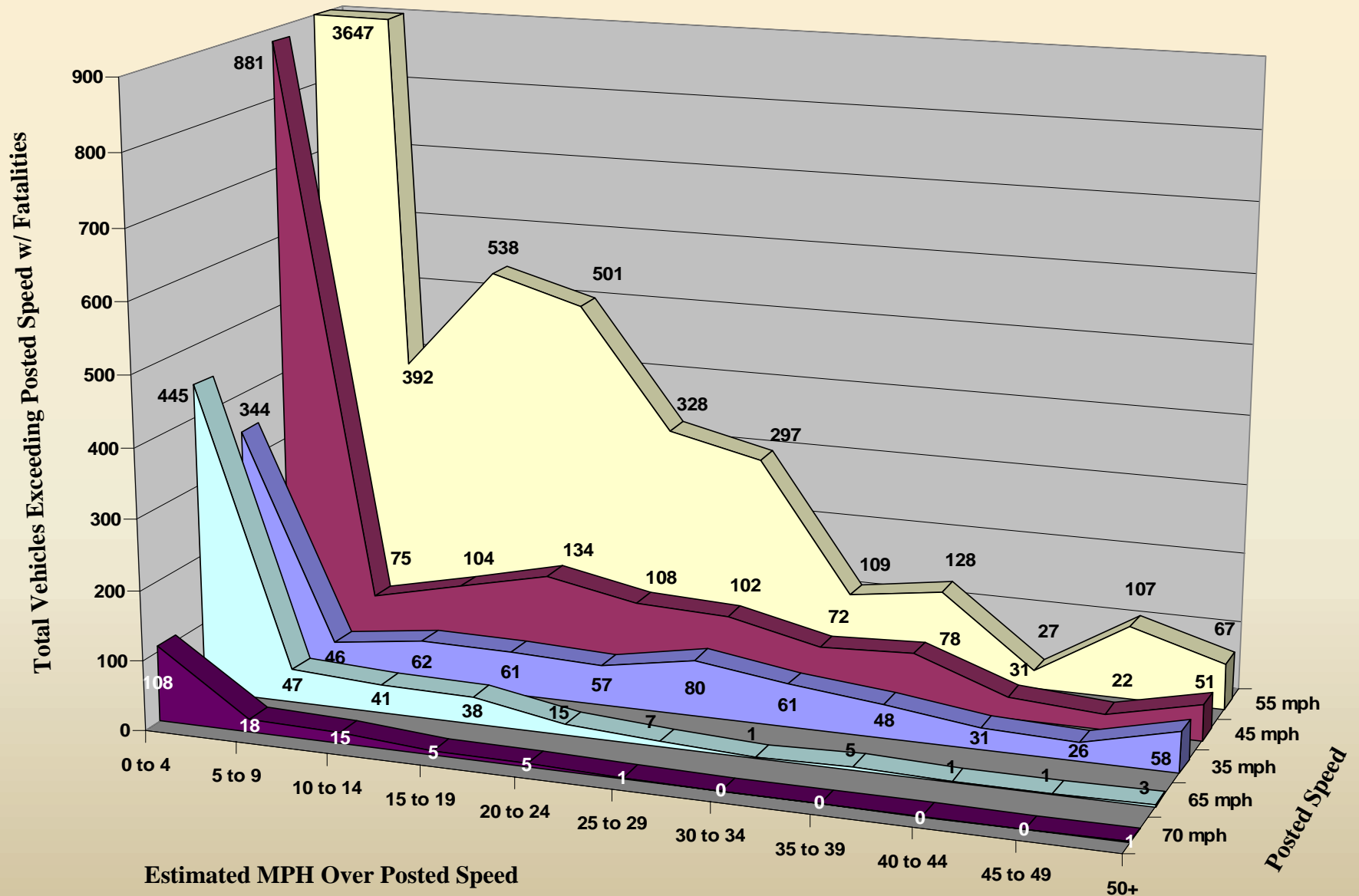
Fatal Crashes



Route Mileage

Estimated Vs. Posted Speeds (Fatal Crashes)

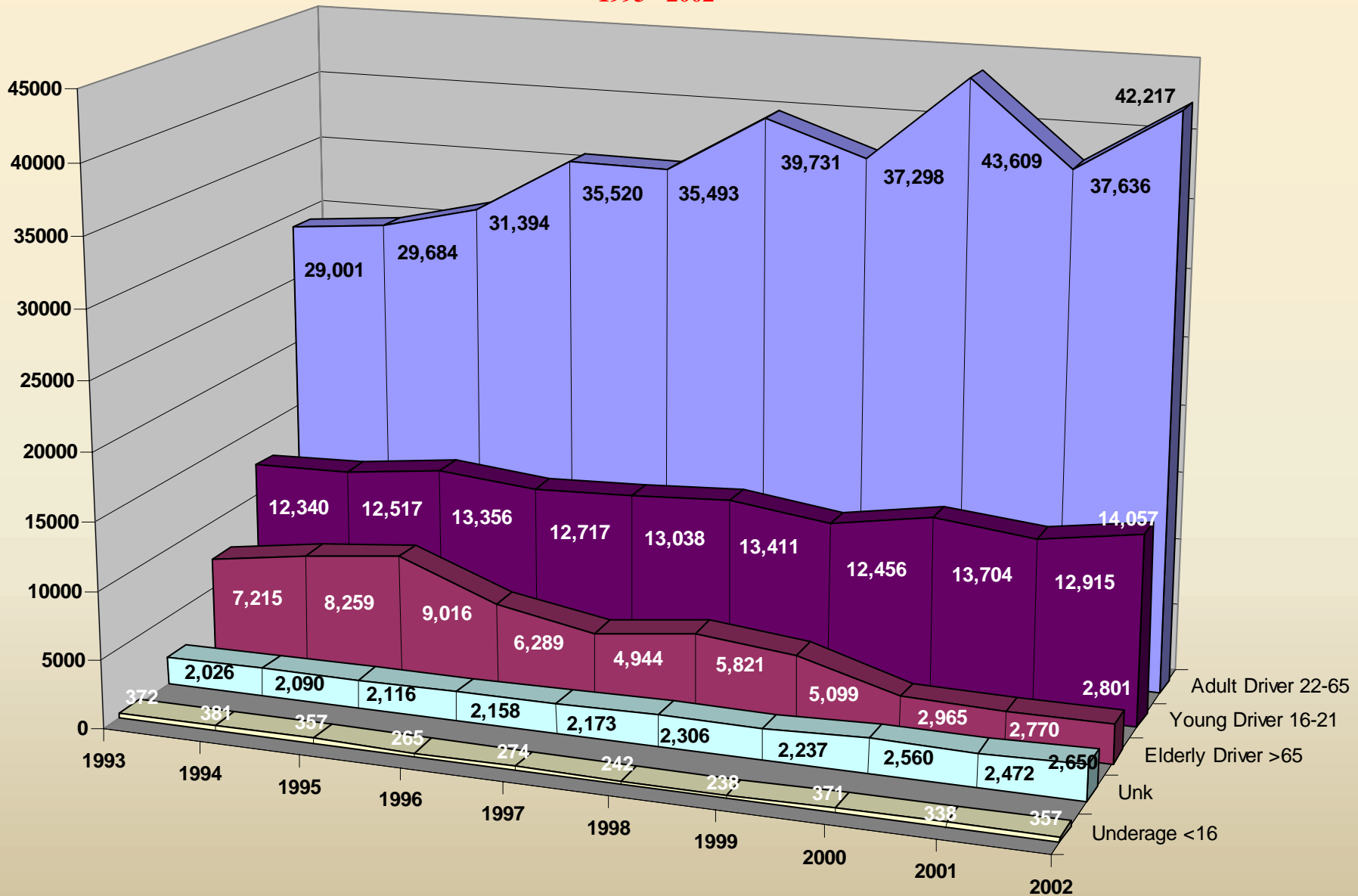
1993 - 2002



Lane Departure Crashes

(All Crashes by Age Group)

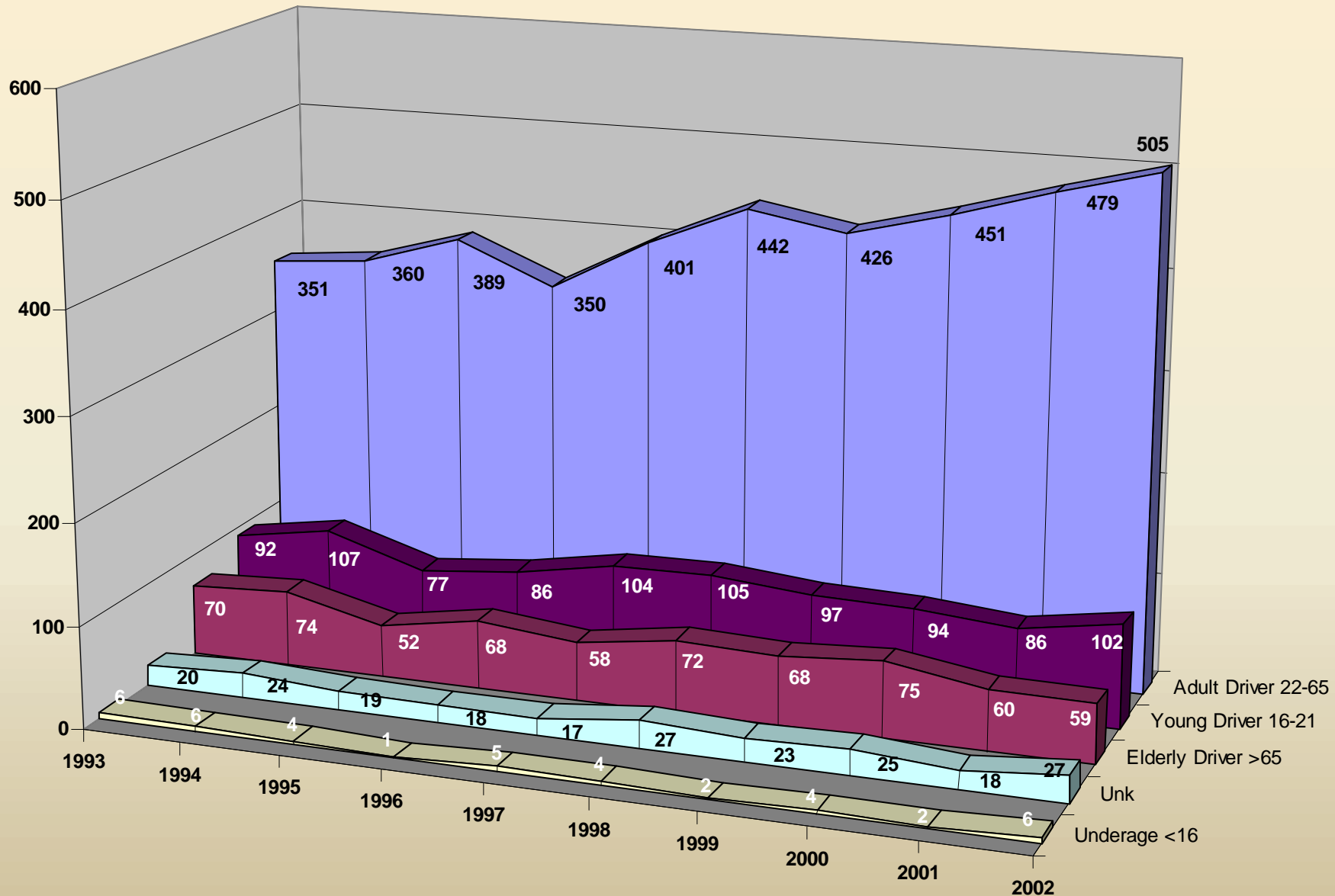
1993 - 2002



Lane Departure Crashes

(Fatal Crashes by Age Group)

1993 - 2002



Lane Departure Crashes

(Paved vs. Unpaved Secondary Roads)

1993 - 2002 Data

	All Crashes	% of All	Fatalities	% of Fatalities
Paved	206,971	94.3%	3,573	97.8%
Unpaved	12,612	5.7%	80	2.2%
Total	219,583	100.0%	3,653	100.0%